9. DATA

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2. Advice Displays & the Conditions for Display

1."CALL SERVICE" indication

T1
CALL SERVICE

- Main Motor Lock -
Displayed to interrupt the machine operation:
1) If the Magnet A is still detected by the **Magnet A detection sensor 2 seconds** after the Main motor started.
2) If the Magnet A hasn't been detected by the **Magnet A detection sensor within 5 seconds** after the Main motor started.

T2
CALL SERVICE

- Elevator Motor Lock -
Displayed to interrupt the machine operation:
1) If the actuator of the **Elevator upper limit sensor** has not been raised to open the light path **within 7 seconds** after the Elevator motor started to rise.
2) If the actuator of the **Elevator lower limit switch** has not been depressed **within 7 seconds** after the Elevator motor started to lower.
3) If the actuator of the **Elevator lower limit switch** is still depressed **2 seconds** after the Elevator motor started to rise.
4) If the actuator of the **Elevator upper limit sensor** is still raised to open the light path **2 seconds** after the Elevator motor started to lower.

T3
CALL SERVICE

- Clamp Error -
Displayed to interrupt the machine operation:
1) If the actuator of the **Clamp safety switch** is still depressed **4 seconds** after the Clamp solenoid was activated(turned on).
2) If the actuator of the **Clamp safety switch** has not been depressed **within 4 seconds** after the Clamp solenoid was released(turned off).
3) If the Angular magnet has not been detected by the **Angular sensor** (either 0° or 180°) **within 8 seconds** after the Clamp motor started rotating.
Displayed to prevent the machine operation:
4) If the actuator of the **Clamp safety switch** is not depressed when the Clamp solenoid is not in operation.

T4
CALL SERVICE

- Ink Overflow -
Displayed after the machine operation finished, immediately stopping the Inking motor:
1) If the **Overflow sensor** detects excessive ink in the Squeegee unit.

T5
CALL SERVICE

- Print Positioning Motor Lock -
Displayed after the machine operation finished, immediately stopping the Print positioning motor:
1) If the **Vertical centering sensor** status has not been changed from ON to OFF (or OFF to ON) **within 12 seconds** after the Print positioning motor started rotating.

T6
CALL SERVICE

- Communication Error between Panel and System PCBs -
Displayed to interrupt the machine operation:
1) If a communication error has occurred between the Panel and System PCBs.

T7
CALL SERVICE

- Communication Error between Panel and Digitizer PCBs -
Displayed to interrupt the machine operation:
1) If a communication error has occurred between the Panel and Digitizer PCBs.

T8
CALL SERVICE

- Communication Error between System PCBs and Interface Accessaries -
Displayed to interrupt the machine operation:
1) If a communication error has occurred between the System PCBs and the interface accessaries.

T9
CALL SERVICE

- Communication Error between System PCBs and RC Sorter -
Displayed to interrupt the machine operation:
1) If a communication error has occurred between the System PCBs and the RC sorter

T10
CALL SERVICE

- Malfunction of the Magnet A Detection Sensor -
Displayed to interrupt the machine operation:
1) If the **Magnet A detection sensor** has not detected the Magnet A by the time the Pressure detection sensor status has changed twice from OFF to ON (the light path of the sensor has been blocked twice by the Pressure Disc) after the Main motor started.

T11
CALL SERVICE

- Pressure Control Motor Lock-
Displayed to interrupt the machine operation:
1) If the resistance value of the **Print pressure detection potentiometer** has not changed to a specified value within **20 seconds** after the Pressure control motor started.

T13
CALL SERVICE

- Cutter Motor Lock -
Displayed:
1) If the error message **"MASTER CUT MALFUNCTION/PRESS RESET BUTTON"** has been displayed twice in master making operation.

2. "JAM or ERROR" indication

PAPER JAM
CHECK PAPER FEED AREA

- Paper Jam in the Paper Feed Area -

[In Master-making]

Displayed after the master has been loaded on the Drum:

1) If the light path of the **Paper sensor** is blocked at the second Magnet A detection after cutting operation.

Note:

- If the light path of the **Paper receiving sensor 1** was openat the first Magnet A detection after cutting, it is judged that tha first sheet is stuck in the second paper feed area.
- If the light path of the **Paper receiving sensor 1** was blocked at the first Magnet A detection after cutting, it is judged that some sheets have been fed with lead and trail edges stuck to each other.

[In Printing]

Displayed in the following cases:

1) If the light path of the **Paper receiving sensor 1** is open at the first Magnet A detection after the light path blocking of the Paper sensor, and if the light path of the **Paper sensor** is still blocked at the second Magnet A detection.

Note:

- At the first Magnet A detection, the Print signal is interrupted to stop the first paper feed (Paper feed clutch's operation).
- Judged that paper is stuck in the second paper feed area.

2) If the light path of the **Pressure detection sensor** has been blocked twice while that of **Paper sensor** is kept blocked from the first blocking after the start of printing.
The jam message will be displayed when the Drum stops after the Magnet A has been detected twice by the detection sensor following the above.

Note:

- At the light path blocking of the Pressure detection sensor,the Print signal is interrupted to stop the first paper feed (Paper feed clutch's operation).
- Judged that some sheets have been fed with lead and trail edges stuck to each other.

3) If the light paths of the **Paper receiving sensor 1** and **Paper sensor** are both open at a Magnet A detection, and if the light path of the **Paper sensor** has been open during the following 2 Magnet A detections.
The jam message will be displayed when the Drum stops after the Magnet A has been detected twice by the detection sensor following the above.

Note:

- At the first Magnet A detection following the above (at the fourth one counted from the beginning), the Print signal is interrupted to stop the first paper feed (Paper feed clutch's operation).
- Judged that paper has misfed or slipped in feeding.

PAPER JAM UNDER DRUM
PULL OUT DRUM

- Paper Jam under the Drum or in the Paper Receiving Area -

[In Master-making]

Displayed after the master has been loaded on the Drum:

1) If the light path of the **Paper receiving sensor 1** is blocked at the start of the light path blocking of the **Pressure detection sensor**.
   Note:
   - Judged that the previous jammed paper still remains under the Drum.
2) If the light path of the **Paper receiving sensor 1** was open at the first Magnet A detection after cutting, and if the light path of the **Paper sensor** is also open at the second Magnet A detection.
   Note:
   - Judged that the first copy was not separated from the Drum and has stuck onto it.

[In Printing]

Displayed in the following cases:

1) If the light path of the **Paper receiving sensor 1** is blocked at the start of the light path blocking of the **Pressure detection sensor**.
   The jam message will be displayed when the Drum stops after the Magnet A has been detected twice by the detection sensor following the above.
   Note:
   - At the start of the light path blocking of the Pressure detection sensor, the Print signal is immediately interrupted to stop the first paper feed (Paper feed clutch's operation).
     Judged that the printed copy has jammed around the Separator.
2) If the light path of the **Paper receiving sensor 1** is open at the first Magnet A detection after the light path blocking of the **Paper sensor**, and if the light path of the **Paper sensor** is open at the second Magnet A detection.
   Note:
   - At the first Magnet A detection, the Print signal is interrupted to stop the first paper feed (Paper feed clutch's operation).
     Judged that the printed copy was not separated from the Drum and has stuck onto it.
3) If the light path of the **Paper receiving sensor 2** has been kept blocked while that of the **Paper receiving sensor 1** has been blocked twice.
   The jam message will be displayed when the Drum stops after the Magnet A has been detected three times by the detection sensor following the above.
   Note:
   - At the first Magnet A detection following the above, the Print signal is interrupted to stop the first paper feed (Paper feed clutch's operation).
   - Judged that the printed copy has jammed around the exit of the paper receiving side or on the Paper receiving tray.

MASTER CLAMP ERROR
PRESS RESET BUTTON

- The Master has Not been Loaded onto the Drum -

Displayed in master-making and confidential processes after the following display message is cleared:

[REMOVE CUT MASTER STRIP]

Note: The above message will be displayed:

1) If the **Master sensor** did not detect the master on the Drum at the Magnet C-1 detection in master loading process (preventing the first paper feed-Paper feed clutch's operation), and then if the **Master positioning sensor** detects the master at the Magnet A detection after master-cutting operation at the Magnet C-2 detection.
   If the **Master positioning sensor** does not detect the master at the Magnet A detection after master-cutting operation, the above message **[REMOVE CUT MASTER STRIP]** will not be displayed.

MASTER CUT
MALFUNCTION
PRESS RESET BUTTON

- Master Cut Error -

Displayed to interrupt the machine operation in master-making and confidential processes:

1) If the **Master sensor** detected the master on the Drum at the Magnet C-1 detection in master loading process, and then if the **Master positioning sensor** detects the master at the Magnet A detection after master-cutting operation (the Magnet C-2 detection).

MASTER MIS-FEED
RESET MASTER

- Master has Not been Properly Fed or Loaded -

Displayed after the master has been loaded onto the Drum in master making or confidential process:

1) If the **Master positioning sensor** has not detect the master material **within 536 pulses** after the Loading pulse motor started rotating following the master cutting operation.
   Note:
   - The Loading and Write pulse motors are turned off following the above.

Displayed to interrupt the machine operation when the Master loading button was pressed:

2) If the **Master positioning sensor** has not detected the master material **within 2426 pulses** after the Loading pulse motor was turned on.
3) If the **Master positioning sensor** has not detected the master **within 536 pulses** after the Loading pulse motor was turned on following the operation of the Cutter motor.

USED MASTER NOT
DISCHARGED
PULL OUT DRUM
AND CHECK

- The Used Master has Not been Removed from the Drum -

Displayed after the Image scanning and Master making operations are completed or in the confidential operation:

1) If the light path of the **Master removal sensor** has been open until the Magnet A detection sensor detects the Magnet A after the detection of the master by the Master sensor at the Magnet C-1 detection, during master removal.
   Note:
   - If the Master sensor does not detect the master at the Magnet C-1 detection, in the above case, the Master removal sensor is prevented from operating and the message will not be displayed.

ORIGINAL MISFEED
RESET ORIGINAL

- Original has Not Fed -
Displayed **for 2 seconds** to immediately interrupt the machine operation:
1) If the actuator of the **Original registration sensor** has not been raised to open the light path **within 2646 pulses** after the Read pulse motor was turned on by pressing the "START" button for master making.

ORIGINAL JAM
RESET ORIGINAL

- Original has Jammed before Image Scanning Area -
Displayed to immediately interrupt the machine operation:
1) If the light path of the **Original IN sensor** is still open **677 pulses** after the Read pulse motor was switched from counterclockwise to clockwise rotation.

ORIGINAL JAM OR OVERSIZE
REMOVE JAMMED ORIGINAL

- Original is Oversized or has Jammed in Image Scanning Area -
Displayed after the master has been loaded onto the Drum:
1) If the light path of the **Original IN sensor** has been kept blocked **for 14331 pulses** since it was blocked.

NO MASTER ON DRUM
SET ORIGINAL IN PLACE AND
PRESS START BUTTON

- The Master is Not Attached to the Drum -
Displayed **for 2 seconds** after the Drum has stopped at the Magnet A detection:
1) If the **Master sensor** does not detect the master (the reflected light) when the Magnet C-1 has been detected by the Magnet C detection sensor just after the print started.
Note:
* At the Magnet C-1 detection, the Print signal is interrupted to stop the first paper feed (Paper feed clutch's operation).

MASTER JAM IN
MASTER DISPOSAL UNIT

- The Used Master is Jammed and Blocked at the entrance of Master disposal box -
Displayed when "START" button is pressed for master-making operation.
1) If the light path of the **Master removal sensor** is blocked at the start of master-making operation.

3. "CHECK SETTING" indication

SET DRUM IN PLACE	Displayed to prevent the machine operation: • If the actuator of the **Drum set switch** is not depressed.
SET INK BOTTLE IN PLACE	Displayed to prevent the machine operation: • If the actuator of the **Ink bottle switch** is not depressed.
ADD PAPER	Displayed to interrupt the Print signal (the first paper feed) in printing: 1) If the light path of the **Paper detection sensor** is open when that of the Pressure detection sensor has been opened in printing. Displayed to prevent the machine operation: 2) If the light path of the **Paper detection sensor** is open.
SET LEAD EDGE OF MASTER UNDER GREEN FILM	Displayed to prevent the machine operation: • If the **Master detection sensor** does not detect the master material (the reflected light).
CLOSE FRONT COVER	Displayed to prevent the machine operation: • If the metal plate is not attached to the **Front cover set sensor**.
SET MASTER DISPOSAL BOX IN PLACE	Displayed to prevent the machine operation: • If the actuator of the **Disposal box set switch** is not depressed.
SET ORIGINAL FEED TABLE IN PLACE	Displayed to prevent the machine operation: • If the actuator of the **Original-feed table set switch** is not depressed.
CLOSE MASTER LOADING UNIT	Displayed to prevent the machine operation: • If the actuator of the **Master loading unit switch** is not depressed.
SET ORIGINAL IN PLACE	Displayed: • If the actuator of the **Original detection sensor** is not raised to open the light path when the "START" button is pressed for master making.

4. Others

REPLACE INK BOTTLE	Displayed after the machine operation is finished: • If the **Ink sensor** has not detected ink in the Squeegee unit **within 30 seconds** after the Inking motor was started rotating by the detection of scarce ink in the unit.
REPLACE MASTER ROLL	Displayed after the machine operation is finished: • If the black tape attached at the end of the Master roll has been detected by the **Master end sensor** during master making or the confidential operation.
EMPTY DISPOSAL BOX	Displayed after the machine operation is finished: • If the **internal counter** for disposed masters on the **Panel PCB** has counted **30** through the detection of disposed masters by the **Master removal sensor**.
REMOVE CUT MASTER STRIP	Displayed: • If the **Master positioning sensor** detects the master material (the reflected light) just after the master cut operation is completed.
SELECT PRINT QUANTITY	Displayed: • If the "START" button is pressed for printing when the print quantity is set to **0**.
PRESS RESET BUTTON	Displayed: • When jam has occurred.
TO RESUME PRESS START BUTTON	Displayed: • If the "RESET" button has been pressed after the error or jam occurred.